OIL LUBRICATED AIR COMPRESSORS

ELGi's oil-lubricated rotary screw compressors are designed to provide steady, energy-efficient and smart air solutions with a reliable supply of quality compressed air to all the industries in the Middle East countries.

TALK TO OUR AIR EXPERT NOW

Oil-lubricated air compressors, compress atmospheric air and store it in an air receiver tank. The lubricating media in the case of oil-lubricated air compressors is oil. Oil offers efficient heat dissipation and frictionless operation for the rotors or the pistons. With ELGi's lubricated or oil-injected air compressors, you can keep your production process running smoothly with maximum efficiency. They offer high uptime and ensure you get consistent airflow at a low maintenance cost.

ELGi's range of oil-lubricated rotary screw compressors and piston compressors offers maximum productivity while creating an efficient experience, with its best time-proven designs, new advanced technological features, and well-equipped manufacturing excellence.

SCREW COMPRESSORS

PISTON COMPRESSORS

ELECTRIC LUBRICATED SCREW AIR COMPRESSOR

EN SERIES SCREW COMPRESSORS 2.2-15 KW

ELGi's EN series oil lubricated screw compressors are known for their reliability, low maintenance requirements, and small footprint, which make them ideal for industrial applications where size, efficiency, and cost matter.

KNOW MORE CONNECT WITH US

ELECTRIC LUBRICATED SCREW AIR COMPRESSORS

EQ SERIES SCREW AIR COMPRESSORS 11 – 45 kW

The ELGi EQ Series offers unmatched reliability, built tough for a long-lasting performance. Backed by a best-in-class warranty and requiring minimal maintenance, it stands out as a reliable air compressor for industries where size, reliability, and cost are paramount. These air compressors excel in the most demanding and challenging conditions, providing maximum uptime and extended life. Designed for customer-specific applications, the ELGi EQ Series sets the standard for excellence in compressed air maintenance, delivering exceptional value for small and medium enterprises (SMEs). When you need a reliable compressor that won't break the bank, the EQ Series is your ideal choice.

KNOW MORE | CONNECT WITH US

ELECTRIC LUBRICATED SCREW AIR COMPRESSOR

EG SERIES SCREW COMPRESSOR

ELGi's EG series compressors represent a giant leap in design and performance, with every component designed for reliability and ease of maintenance. Each compressor is designed and manufactured in compliance with applicable international standards (CE, ASME, UL and others).

KNOW MORE | CONNECT WITH US

WHY BUY ELGi OIL LUBRICATED AIR COMPRESSORS?

The ELGi EG series oil-lubricated screw air compressors are offered in three versions to satisfy your needs. These air compressors are energy-efficient due to the use of our in-house eta-V profile rotors. The ELGi EG series oil lubricated air compressors feature the industry's best warranty program and lowest operational expenses.

The 11-75kW EG series is used in car mechanic shops, textiles, electronics, engineering, and packaging. The 90-160kW and 200-250kW power ranges are appropriate for automotive, oil and gas, cement, paper and pulp, steel, and other industries.

ELGi oil flooded air compressors provide increased efficiency, durability, and lower maintenance costs, making them a reliable choice for a wide range of industrial applications. Our strong network of service engineers in the Middle Eastern region offers best-in-class customer support.

MAXIMISING YOUR ENERGY EFFICIENCY

ELGi's oil lubricated compressor range has a high energy efficiency ensuring smart savings for fluctuating air demands by reducing your operating pressures and total lifecycle cost and helping to recover and re-utilise waste energy for maximum benefits.

MAXIMUM BENEFITS

ELGi assures maximum benefits with the range of oil-injected air compressors with their high durability, best-in-class warranty, efficient air-oil separation with the lowest oil carryover in the industry, encapsulated own manufactured airends and superior performance.

RELIABLE WORKING FOR YOU

As one of the leading lubricated air compressor manufacturers, ELGi understands what you are looking for. So, we have made it easy for you to find the most reliable range of compressed air technologies based on your needs. ELGi is known for optimum long term performance, easy installations, compact, and temperature resistant designs.

OIL LUBRICATED VS OIL FREE COMPRESSORS

Advantages

Both oil-free and oil-lubricated compressors have unique benefits. Oil-free compressors are an excellent choice when air quality is of utmost importance. They eliminate the risk of oil contamination, have lower maintenance costs, and are environmentally friendly. On the other hand, oil-lubricated compressors are cost-effective upfront and suitable for a wide range of applications across various industries. They offer established and reliable technology with a broad selection of sizes and capacities.

Considerations

When deciding between oil-free and oil-lubricated compressors, factors like the specific needs of your application, budget constraints, and environmental considerations come into play. Making an informed choice ensures that your compressed air aligns perfectly with your operational requirements.

Air Quality Classes for Oil Free Compressors

Compressed air quality is a vital consideration when selecting an air compressor technology. Air Quality Standard ISO 8573-1 serves as the benchmark, evaluating the size and quantity of contaminants, such as oil, dust, and water, in the compressed air. Air quality classes are defined, with most applications favoring Class 2 or lower due to lower oil content. More sensitive industries may opt for Class 1 or the highest standard, Class 0, which provides the best air quality. For reference, here are some recommended air quality classes by industry:

Class 0: Food & Beverage, Pharma, Electronics
Class 1: Metallurgy, Pulp & Paper, General Manufacturing

Maintenance Costs

Oil-free screw air compressors may have a higher initial cost but lead to lower maintenance expenses. They rely on oil solely for internal lubrication, reducing overall maintenance needs.

Noise Levels

It's important to note that oil-free screw compressors may produce slightly higher noise levels due to their dry technology. When selecting an oil free air compressor, the compressor's location within your facility should be considered to mitigate noise-related concerns.

OIL LUBRICATED COMPRESSOR MAINTENANCE TIPS

Oil lubricated air compressors are commonly used in various industries for generating compressed air. Proper maintenance of these compressors is essential to ensure their efficiency, longevity, and safe operation. Here are some maintenance tips to keep your oil lubricated rotary screw air compressor in optimal condition:

Regular Oil Checks: Check the oil level in the compressor regularly. Low oil levels can cause increased friction and premature component damage. Use only the type and grade of oil suggested by the manufacturer.

Oil Changes: Follow the manufacturer's recommendations for regularly changing the compressor's oil. This keeps the oil's lubricating capabilities efficient and prevents impurities from accumulating.

Air Filter Inspection and Replacement: The air intake filter keeps dust, dirt, and other impurities out of the compressor's system. Regularly inspect, clean, and replace the air filter if it is broken or clogged. A clogged filter can reduce airflow and reduce compressor efficiency.

Cooling System Maintenance: The compressor's cooling system is critical for preventing overheating. Clean the cooling fins and ensure optimum airflow to disperse heat effectively. Check for any coolant leaks and repair as soon as possible.

Inspect Belts and Hoses: Examine the condition of the belts and hoses that drive the compressor. To ensure smooth functioning, replace any worn or broken belts and hoses.

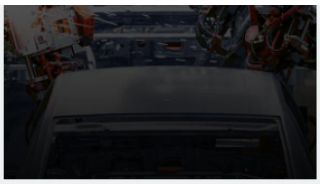
Drain Condensate: Condensation can accumulate in the compressor's tank and lines. Regularly drain the condensate to avoid corrosion and water damage to interior components.

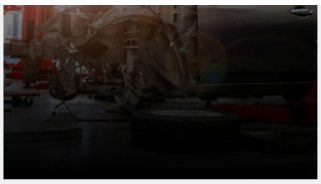
Professional Servicing: While some maintenance activities can be completed in-house, it is best to have a professional technician inspect and service your oil injected air compressor on a regular basis. They can detect possible problems early on and respond correctly. Make an appointment with one of our professionals to have your compressor checked.

Oil Lubricated Rotary Screw Technology: Enhancing Industrial Performance Watch as we delve into the inner workings of these advanced machines designed to optimize industrial processes and boost productivity.

INDUSTRIAL APPLICATIONS OF

OIL LUBRICATED COMPRESSORS





FREQUENTLY ASKED QUESTIONS (FAQS)

How often should I change the oil in an oil-lubricated air compressor?

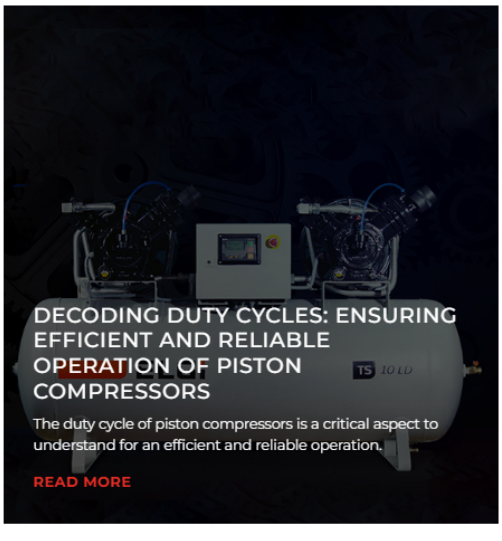
The frequency of oil changes depends on factors such as compressor usage, operating conditions, and the manufacturer's recommendations. Typically, oil changes are needed every 3 to 6 months.

What kind of oil is used in oil lubricated air compressors?

How to increase the life of an oil lubricated air compressor?

Is regular monitoring and maintenance of oil levels necessary for electric oil-lubricated screw compressors?

PRODUCT RELATED ARTICLES



DECODING DUTY CYCLES: ENSURING EFFICIENT AND RELIABLE OPERATION OF PISTON COMPRESSORS

The duty cycle of piston compressors is a critical aspect to understand for an efficient and reliable operation.

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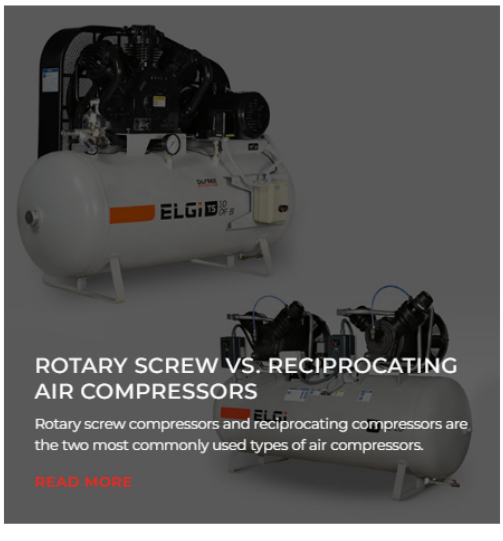
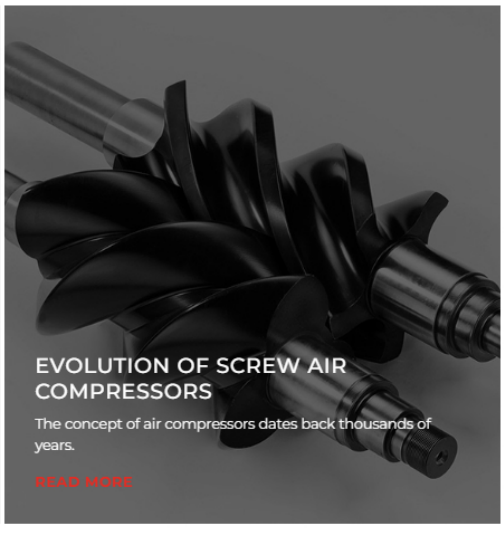


ROTARY SCREW VS. RECIPROCATING AIR COMPRESSORS

Rotary screw compressors and reciprocating compressors are the two most commonly used types of air compressors.

READ MORE



EVOLUTION OF SCREW AIR COMPRESSORS

The concept of air compressors dates back thousands of years.

READ MORE

INTERESTED IN OUR **SERVICES & PARTS?**

From service plans and service networks to Genuine ELGi parts, explore our vast range of services and parts to find exactly what you need. We have our presence with sales and service support of air compressors in Qatar, Saudi Arabia, Bahrain and Oman.

PLACE A REQUEST

ELGi®
Always Better.

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